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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 82 06 00

Classification of the application (IPC):
C12N 1/21, ***C12N 13/00***, ***C12N 15/53***, ***C12N 15/54***, ***C12N 9/02***, ***C12N 9/04***, ***C12N 9/10***, ***C12N 9/12***, ***C12P 7/02***, ***C12P 7/18***, ***C12P 7/24***, ***C12P 7/42***, ***C12P 7/44***

Technical fields searched (IPC):
C12N, C12P

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2015167028 A1 (BURGARD ET AL) 18 June 2015 (2015-06-18) * See Figure 3 (last step) and [0152/esp. the microorganisms] *	1-11
A	**BART ET AL**: "Transiting from adipic acid to bioadipic acid. Part II. Biosynthetic pathways" *INDUSTRY & ENGINEERING CHEMISTRY RESEARCH*, 18 December 2014 (2014-12-18), vol. 54, pages 567-576, XP002787512 * See page 567 (Figure 1) and pages 570-571 (Figures 5 and 7); early online publication *	1-11
A	**YU ET AL**: "Direct biosynthesis of adipic acid from a synthetic pathway in recombinant Escherichia coli" *BIOTECHNOLOGY AND BIOENGINEERING*, 2014, vol. 111, pages 2580-2586, XP002787513 * See page 2581 (Figure 1) *	1-11
X	DATABASE UniParc [Online] **N.N.**: "Bacillus coagulans", 2014, Database accession no. UPI000404C9FD, XP002787549 * See the sequence = 99.2 identitywith SEQ 1 of the Application *	1-4
L	**CHAN JOO**: "Biocatalytic production of adipic acid from unsaturated six-carbon dicarboxylic acids using 2-enoate reductases" *Gordon Research Conference, programme*, 17 December 2014 (2014-12-17), pages 1-10 URL: https://www.grc.org/biocatalysis-conference/2014/ [retrieved on 17 December 2018 (2018-12-17)] XP002787514 * See the Wednesday lectureat 9 pm by Jeong Chan Joo *	

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search	Date of completion of the search	Examiner
Berlin	18 December 2018	Korsner, Sven-Erik

CATEGORY OF CITED DOCUMENTS

X: particularly relefant if taken alone
Y : particularly relefant if combined with another document of the same category
A: technological background
O: non-written disclosure
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T: theory or principle underlying the invention
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LACK OF UNITIY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 3, 8-11
Processes for producing adipic acid using an alpha-beta-enoate, host microorganisms, and compositions.

2. claims: 12-15
Downstream processes from adipic acid, host microorganisms, and compositions.

None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims: 3, 8-11(completely); 1, 2, 4-7(partially)

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search	Date of completion of the search	Examiner
Berlin	18 December 2018	Korsner, Sven-Erik

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 18-12-2018
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For more details about this annex: see Official Journal of the European Patent Office, No. 12/82